

IFQ



HNRC-03-014

July 1, 2004

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572
28 Davis Avenue
Poughkeepsie, N.Y. 12603

Subject: | Serial No. 10/828,888 04/21/04 |

Lijie Guan et al.

A FOUR SIDED SHIELD STRUCTURE FOR
A PERPENDICULAR WRITE HEAD

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner for Patents,
P.O. Box 450, Alexandria, VA 22313-1450, on July 2, 2004.

George O. Saile, Reg. No. 19572

Signature/Date

George O. Saile 7/2/04

U.S. Patent 5,173,821 to Maloney, "Adaptive-Gap Magnetic Recording and Reading Head," describes a tapered pole.

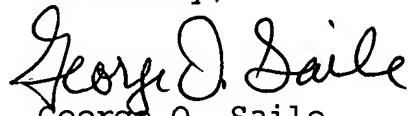
U.S. Patent 5,995,343 to Imamura, "Magnetic Head with Specified Tapered Pole Tip Width Ratio," describes a tapered pole portion at the tip.

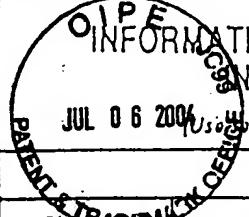
U.S. Patent 5,600,519 to Heim et al., "Controlled Saturation Thin Film Magnetic Write Head," teaches the use of a tapered pole tip to increase the head field.

U.S. Patent 4,935,832 to Das et al., "Recording Heads with Side Shields," discloses side shields around the write pole.

The article "One Terabit per Square Inch Perpendicular Recording Conceptual Design," by Mallary et al., IEEE Trans. on Magnetics, Vol. 38, No. 4, July 2002, pp. 1719-1724, discusses analysis based on the use of a high-gradient shielded pole write head which indicates that a one terabit per square inch perpendicular recording system can be realized.

Sincerely,


George O. Saile,
Reg. No. 19572



**INFORMATION DISCLOSURE CITATION
ON AN APPLICATION**

JUL 06 2004 (Use several sheets if necessary)

Doctor's Number (Optional)

Ackerson Number

HTIRC-03-014 10/828, 888

Looptown

Lijie Guan et al.

Filing Date

04/21/04

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (*Including Author, Title, Date, Portion or Pages, Etc.*)

- "One Terabit per Square Inch Perpendicular Recording Conceptual Design," Mallary et al., IEEE Trans. on Magnetics, Vol. 38, No. 4, July 2002, pp. 1719-1724.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.